

# ABSTRACT OF THE DISCLOSURE

A yoke housing that receives an armature has a plurality of permanent magnets (primary magnetic poles) secured to an inner peripheral surface of the yoke housing. Furthermore, the yoke housing includes a plurality of groove-like reduced thickness portions for increasing a magnetic resistance. Each reduced thickness portion extends along a center line of a corresponding one of the permanent magnets.

1. A yoke housing for an armature, comprising:  
a plurality of permanent magnets secured to an inner peripheral surface of the yoke housing;  
a plurality of groove-like reduced thickness portions for increasing a magnetic resistance;  
each reduced thickness portion extending along a center line of a corresponding one of the permanent magnets.